

COMSEARCH  
11720 Sunrise Valley Drive  
Reston, Virginia 22091  
(703) 620-6300

NASSAU, COUNTY OF POLICE DEPARTMENT  
CONTINUED

NCMC	WNTL566	WNTN298	WNTTP285	WNTTP289	SYOSSE
THOMAS	WATERT	WHI453	WHI456	WHI459	WHI464

NATIONAL WESTMINSTER BANK  
WNEX352 WNEX353

NBC SUBSIDIARY (WNBC-TV, INC.)					
RXONLY	WLE370	WLE371	WLE373	WLE374	WLE375

NEW ENGLAND DIGITAL DISTRIBUTION, INC.					
CANDW	PRUDEN	WLK709	WLK711	WLL304	WLL305
WLL306	WLM601	WLM602	WML249	WML250	

NEW ENGLAND MICROWAVE INC (STORER)  
WNTQ567 WNTQ568

NEW JERSEY BELL TELEPHONE COMPANY					
ELIZAB	ELIZER	HACKE2	HACKEN	KEA69	KEARNY
KEK98	KEL24	KYS29	LIVING	MTOLIV	NEWARK
PARAMU	ROCHPK	TEMP10	TEMP12	TETERB	TOTOWA
TRENT2	TRENT4	WAYNE	WBB307	WEEHAW	WHIPP
WLM594	WLM595	WLM780	WLR525	WPY24	

NEW JERSEY INTERCAMPUS NETWORK, INC.					
7 GEIG	HERITA	MONTCL	RUTGER	RXONLY	SCOTT
STEVEN	TUCKER				

NEW JERSEY PUBLIC BROADCASTING AUTHORITY  
NJIT NJMTV RXONLY WLO382

NEW YORK STATE OF OFFICE GENERAL SRVCS					
WNEP901	WNEP902	WNEP903	WNEP904	WNEP905	WNEP906
WNTQ212	WNTQ213				

NEW YORK CELLULAR GEOGRAPHIC SRVC AREA					
ARLING	GARDEN	GLEN O	JERSEY	LAIGHT	SUNNYS
VARICK	WLU805	WOBURN			

NEW YORK CGSA FOR ALBANY  
WLL876 WLL877

NEW YORK CITY HEALTH & HOSPITAL CORP					
WNEV610	WNEV616	WNEV617	WBM570	WBM571	WCE302
WCE303					

NEW YORK CITY POLICE DEPARTMENT  
WNEG400 WNEX236

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NEW YORK STATE ASSEMBLY  
ONECOM SMITH

NEW YORK STATE ELECTRIC AND GAS  
WNEU340 WNEU341

NEW YORK STATE HOSPITAL  
WNET703 WNET704

NEW YORK TELEPHONE  
60BROA BEACO NEWBUR WCG232 WCG233 WCG234  
WCG235 WCG236 WCG237 WDD41 WLK824 WLK825  
WLU996

NEW YORK UNIVERSITY, TELECOM. DEP'T.  
24OMER 26THST 3RDAVE EASTBL

NEW YORK, CITY OF BOARD OF EDUCATION  
RXONLY WLE450

NORTHEASTERN PENNSYLVANIA CELLULAR TEL  
WLC661 WLT592 WLW378

NORTHFIELD MT HERMON SCHOOL  
MTHARM NORTHF

ORANGE COUNTY CELLULAR TELEPHONE CORP.  
WLA311 WLV941

OTSEGO COUNTY, NEW YORK  
WNTI976 WGY661 WHI952

PAINE-WEBBER  
WNES834 WNES835

PHOENIX COMMUNICATIONS, INC.  
20 EXC 3 EMPI CARLST EMPIRE

PORT AUTHORITY OF NEW YORK & NEW JERSEY  
WCE399 WPO92

PROVIDENCE JOURNAL  
PROVID WARREN WARWIC

PRUDENTIAL BACHE SECURITIES INC  
WNES799 WNES800

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PUTNAM COMPANIES

WNEW788 WNEW789 WNEW790 WNEW791

RANA INC

WNTG619 WNTG620

RCI NETWORK SERVICES

WHO343 WLC614

ROBERT PLAN INSURANCE CORPORATION

WNEQ882 WNEQ883

SAINT JOSEPH HOSPITAL

WNEF345 WGY592

SANDERS ASSOCIATES

LITCHF MER-15 NCA NHQ REPEAT

SCHENECTADY COUNTY, NEW YORK/LAW ENFORCE

WHJ689 WHJ690 WHJ691

SCRIPPS HOWARD BROADCASTING CO, INC

ORIOLE USFGBL

SOUTHEASTERN PENNSYLVANIA AUTHORITY

WNES420 WEG496

SOUTHWESTERN BELL MOBILE SYSTEMS - MA

AUBURN	CALLAH	CAMBRI	NEEDHA	ROCKLA	S BOST
WEYMOU	WHO990	WHO991	WHO992	WHO993	WHO994
WHO997	WLL347	WLL564	WLL571	WLN798	WLN978
WLS759	WLS808	WLT477	WLU604	WLV734	WLW294
WML597					

SPEAR LEEDS AND KELLOGG INC

WNTE523 WNTE552

SPENCER GIFTS

WHH589 WHH590

STATE STREET BANK AND TRUST COMPANY

WNEK981 WNEK982 WNES610 WNES990 WNES991 PALMER

STATE UNIVERSITY OF NEW YORK

WNEW674 WNEW675

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SUBURBAN CABLE TV CO INC					
KINGPR	NEWHOL	WBM731	WHZ910		
SUPERIOR CABLE TV					
UNIT30	UNIT90				
SUSQUEHANNA CELLULAR COMM LTD PARTNERSHI					
WLC321	WLN992				
TELEMARK NETWORKS, INC					
20EXCH	NEWARK	WLR460	WLR461	WLR462	WMK737
TELEMEDIA COMMUNICATIONS, INC					
PARKPL	PARKWA	PENNAV	THEPHI		
THE BOEING COMPANY					
WNEF240	WNEF241	WNEV573	WNEV574	WNEV575	
TUFTS UNIVERSITY					
ADMINB	EATONH	WNEU811	WNEU812		
URBAN CABLESYSTEMS CORPORATION					
RXONLY	VIRGIN				
WATCH TOWER BIBLE & TRACT SOCITY OF NY					
WNEF888	WNEF889	WNEF890	WNEI862		
WATERFRONT COMMUNICATIONS CORPORATION					
15COLU	CNBC	GIANTS	PHOENI		
WCAU-TV					
WCAUST	WLQ391				
WELCH ALLYN INC					
WNEZ438	WNEZ439				
WEST CORP COMMUNICATIONS, INC.					
WNTF962	WNTF963	PENNSL	WINDSO		
WEST JERSEY HEALTH SYSTEM					
WNTM900	WNTM902	WNTM903	WNTM904		
WESTCHESTER, COUNTY OF					
WNEE395	WNEZ897	RADIO	WATER	WESTCH	
WHYY, INC.					
LIBERT	MICRON	WNEQ791	WNTC378	RXONLY	
WILCO ELECTRONIC SYSTEMS, INC					
HARRIS	IROQUO	WNTQ955	QUEENL	RITTEN	SOUTHW

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WILCO ELECTRONIC SYSTEMS, INC  
CONTINUED  
WILSON

WXTV-TV  
WNTJ260 RXONLY

RESPECTFULLY SUBMITTED,  
COMSEARCH



MICHAEL R. ROTH  
ENGINEER  
TRANSMISSION PLANNING SERVICES

**ATTACHMENT F**

FCC/MELLON MAY 21 1993

**COPY**

ROBERT LEWIS THOMPSON

GREGG P. SHALL

E. THEODORE MALLYCK

OF COUNSEL

FREDERICK W. FORD

1909-1988

TELECOPIER (202) 296-5572

**PEPPER & CORAZZINI**

ATTORNEYS AT LAW

200 MONTGOMERY BUILDING

1776 K STREET, NORTHWEST

WASHINGTON, D. C. 20006

(202) 296-0600

VINCENT A. PEPPER  
ROBERT F. CORAZZINI  
PETER GUTMANN  
JOHN F. GARZIGLIA  
NEAL J. FRIEDMAN  
ELLEN S. MANDELL  
HOWARD J. BARR  
LOUISE CYBULSKI  
JENNIFER L. RICHTER  
\* NOT ADMITTED IN D.C.

May 21, 1993

Federal Communications Commission  
Microwave Service  
P.O. Box 358250  
Pittsburgh, PA 15251-5250

Re: Form 402  
Call Sign: WNTF-569  
Location: River Tower

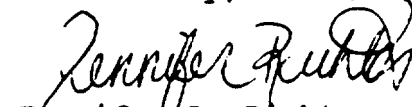
Dear Sir or Madame:

On behalf of Liberty Cable Co., Inc., there are transmitted herewith an original and one copy, clearly designated "copy", of an Application For Authorization in the Private Operational Fixed Microwave Radio Service. The Application seeks to modify the authorization for WNTF-569, an 18 GHz station located at River Tower, 420 East 54th Street in New York. The path from River Tower to 345 E. 52nd street will be modified by adding a passive repeater at that receive point, which will repeat the signal to a building located at 333 E. 55th Street.

Also enclosed is a check in the amount of \$155.00 as payment of the required filing fee.

Should there be any questions, kindly communicate directly with the undersigned.

Yours truly,



Jennifer L. Richter  
Counsel for Liberty Cable  
Co., Inc.

Enclosure

APPLICATION FOR STATION AUTHORIZATION IN THE  
PRIVATE OPERATIONAL FIXED MICROWAVE RADIO SERVICE

**COPY**  
Approved by OMB  
5010-0064  
Expires 10/31/92  
See instructions for information  
regarding public burden estimate

FOR COMMISSION USE ONLY

FILE NUMBER: <b>6794172</b>		SEND TO ASB: <input type="checkbox"/> YES <input type="checkbox"/> NO	
FOR APPLICANT: Use FCC Form 402 Instructions dated December, 1989, or later for reference in completing form.			
<b>SECTION I-IDENTIFICATION INFORMATION</b>			
1. NAME OF APPLICANT: <b>Liberty Cable Co., Inc.</b>		3. CALL SIGN: (If application refers to an existing Part 94 station) <b>WNTP-569</b>	
2. MAILING ADDRESS: (No., street, city, state, ZIP code)  <b>215 East 55th Street New York, NY 10128</b>		4. LICENSEE IDENTIFICATION NUMBER: (If previously assigned by the Commission) <b>005203-200</b>	
<input type="checkbox"/> Check here if you are a current Part 94 licensee and your mailing address, item 2, IS NOT the address on file.		5A. NAME OF PERSON TO CONTACT REGARDING APPLICATION: <b>Jennifer L. Richter, Esquire</b>	
		5B. TELEPHONE NUMBER OF THE CONTACT: <b>(202) 296-0600</b>	
6. TYPE OF APPLICANT: <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> ASSOCIATION <input type="checkbox"/> PARTNERSHIP <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> GOVERNMENTAL ENTITY		7. CLASS OF STATION: (enter code) <b>FX 0</b>	
		8. ELIGIBILITY RULE SECTION <b>90.75(a)(1)</b>	
9A. PURPOSE OF APPLICATION: <input type="checkbox"/> NEW STATION <input checked="" type="checkbox"/> MODIFICATION (SEE 9B & 9C) <input type="checkbox"/> MODIFICATION WITH RENEWAL (SEE 9B & 9C) <input type="checkbox"/> ASSIGNMENT OF AUTHORIZATION <input type="checkbox"/> OTHER (SPECIFY)			
9B.	PATH ACTION		OLD VALUE OF KEY ITEMS CHANGED
	A	<input checked="" type="checkbox"/> ADD <input checked="" type="checkbox"/> CHANGE <input type="checkbox"/> DELETE	20 30 31 32
	B	<input type="checkbox"/> ADD <input type="checkbox"/> CHANGE <input type="checkbox"/> DELETE	20 30 31 32
	C	<input type="checkbox"/> ADD <input type="checkbox"/> CHANGE <input type="checkbox"/> DELETE	20 30 31 32
	D	<input type="checkbox"/> ADD <input type="checkbox"/> CHANGE <input type="checkbox"/> DELETE	20 30 31 32
	E	<input type="checkbox"/> ADD <input type="checkbox"/> CHANGE <input type="checkbox"/> DELETE	20 30 31 32
9C. DESCRIBE ANY OTHER CHANGES:			
10. WILL THIS SYSTEM BE USED TO PROVIDE A COMMUNICATIONS PRIVATE CARRIER SERVICE TO OTHERS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
<b>SECTION II-ANTENNA INFORMATION</b>			
11. LOCATION OF TRANSMITTING ANTENNA STRUCTURE:			
A. NUMBER AND STREET (or other specific indication) <b>420 East 54th Street (River Tower)</b>		B. CITY <b>New York</b>	
C. COUNTY <b>New York</b>	D. STATE <b>NY</b>	E. COORDINATES (Degrees, Minutes, Seconds) LATITUDE: <b>40-45-20</b> N LONGITUDE: <b>73-57-72</b> W	
12A. IS THE ANTENNA TO BE MOUNTED ON AN EXISTING ANTENNA STRUCTURE? IF YES, ANSWER ITEMS 12B, C, D, & E. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
12B. WILL THE ANTENNA INCREASE THE HEIGHT OF THE EXISTING STRUCTURE? IF YES, BY HOW MANY FEET? <input type="checkbox"/> YES <input type="checkbox"/> NO FT			
12C. NAME OF CURRENT LICENSEE USING STRUCTURE:		<b>FOR COMMISSION USE ONLY</b>  ASB:	
12D. CURRENT LICENSEE'S RADIO SERVICE:			
12E. CURRENT LICENSEE'S CALL SIGN:			
13. FOR ANTENNA TOWERS (OR POLES) MOUNTED ON THE GROUND: ENTER THE OVERALL HEIGHT ABOVE GROUND OF THE ENTIRE ANTENNA (OR POLE) INCLUDING ALL ANTENNAS, DISHES, LIGHTNING RODS, OBSTRUCTION LIGHTING, ETC. MOUNTED ON IT ..... FT			
14. FOR ANTENNAS OR ANTENNA TOWERS (OR POLES) MOUNTED ON A SUPPORTING STRUCTURE SUCH AS A BUILDING, WATER TOWER, SMOKE STACK, ETC.:			
14A. WHAT IS THE OVERALL HEIGHT ABOVE GROUND OF THIS SUPPORTING STRUCTURE? INCLUDE IN THIS HEIGHT ANY ELEVATOR SHAFTS, PENTHOUSES, LIGHTNING RODS, LIGHTS, ETC., WHICH ARE NOT PART OF THE ANTENNA TOWER (OR POLE) ..... <b>423</b> FT			
14B. HOW MANY FEET DOES THE ANTENNA TOWER (OR POLE) (INCLUDING ALL ANTENNAS, DISHES, LIGHTNING RODS, LIGHTS, ETC.) INCREASE THE HEIGHT OF THE SUPPORTING STRUCTURE IN ITEM 14A? IF THIS ANTENNA OR ANTENNA TOWER (OR POLE) DOES NOT INCREASE THE HEIGHT OF THE SUPPORTING STRUCTURE, ENTER ZERO (0) ..... <b>9</b> FT			
14C. WHAT IS THE OVERALL HEIGHT OF THIS SUPPORTING STRUCTURE PLUS THE ANTENNA TOWER (OR POLE)? ..... <b>432</b> FT			
15. GIVE THE GROUND ELEVATION ABOVE MEAN SEA LEVEL AT THE ANTENNA SITE ..... <b>30</b> FT			
16A. NAME OF NEAREST AIRCRAFT LANDING AREA: <b>La Guardia</b>		16B. DIRECTION AND DISTANCE TO NEAREST RUNWAY: <b>4.2 miles 76° East</b>	



17A. Has notice of construction been filed with the FAA on FAA Form 7460-1? If yes, answer items 17B, C, and D. <span style="float:right"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</span>	
17B. NAME UNDER WHICH YOU FILED:	17C. FAA REGIONAL OFFICE: (City)
17D. DATE FILED	

18. Would a Commission grant of your application be an action which may have a significant environmental effect as defined by Section 1.1307 of the Commission's Rules? See Instruction 18. If you answer yes, submit the statement as required by Sections 1.1308 and 1.1311. <span style="float:right"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</span>	19. If this is an existing station, enter the year it was first licensed:  <div style="text-align: right; font-size: 1.2em;">1992</div>
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### SECTION III—TECHNICAL INFORMATION See Attached

NAME OF ITEM	A	B	C	D	E
20. Frequency (MHz) <u>18145.0-18577.0</u>					
21. Bandwidth (kHz) and Emission Type					
22. Type of Message Service					
23. Initial Baseband Channel Loading					
24. 10 yr. Projected Baseband Channel Loading					

### TRANSMITTER INFORMATION

NAME OF ITEM	A	B	C	D	E
25. Transmitter Operating Frequency Tolerance (%)					
26. Antenna Gain (dBi)					
27. Effective Isotropic Radiated Power (dBm)					
28. Beamwidth (Degrees)					
29. Height to Center of Final Radiating Element (Ft)					
30. Polarization					
31. Azimuth to Receive Site or Passive Repeater (PR) No. 1 (Degrees)					

### RECEIVE SITE INFORMATION

NAME OF ITEM	A	B	C	D	E
32. Receiving Station's Call Sign					
33. Receiving Antenna Gain (dBi)					
34. Median Received Signal Level at Input to the Receiver (dBm)					
35. Latitude N (Degrees, Minutes, Seconds)					
36. Longitude W (Degrees, Minutes, Seconds)					
37. Ground Elevation AMSL (Ft)					
38. Height to Center of Receiving Antenna (Ft)					

### PASSIVE REPEATER NO. 1 INFORMATION (IF ANY) See Attached

☐ If you have two or more passive repeaters on the same transmission path, check this box and answer items 39-46 on an additional FCC Form 402 or a separate sheet of paper for the second and successive passive repeaters.

NAME OF ITEM	A	B	C	D	E
39. Latitude N (Degrees, Minutes, Seconds)					
40. Longitude W (Degrees, Minutes, Seconds)					
41. Ground Elevation AMSL (Ft)					
42. Overall Height of PR Structure Above Ground (Ft)					
43. Dimensions (Ft X Ft) or Beamwidth (for dishes) (Degrees)					
44. Height Above Ground to Center of PR (Ft)					
45. Polarization					
46. Azimuth to Receive Site or Next PR (Degrees)					

### SECTION IV—CERTIFICATION

1. Applicant certifies that a copy of CFR 47, Part 94 has been retained for reference.
2. Applicant waives any claim to the use of any particular frequency regardless of prior use by licensee or otherwise.
3. Applicant will have unlimited access to the radio equipment and will control access and exclude unauthorized persons.
4. Neither applicant nor any member thereof is a foreign government or representative thereof.
5. Applicant will utilize type accepted radio equipment and antenna of correct specifications.
6. Applicant certifies that all statements made in this application and attachments are true and complete.

WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ATTACHMENTS ARE PUNISHABLE BY FINE AND IMPRISONMENT U.S. CODE TITLE 18 SECTION 1001

TYPED NAME: <div style="text-align: center; font-size: 1.1em;">Behrooz Nouram</div>	TITLE: <div style="text-align: center; font-size: 1.1em;">Director of Engineering</div>
--	--

SIGNATURE of individual, partner, official of a governmental entity, officer or authorized employee of a corporation, or officer who is also a member of the association. <div style="text-align: center; font-size: 1.2em;"><i>Behrooz Nouram</i></div>	DATE: <div style="text-align: center; font-size: 1.1em;">5/19/93</div>
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NOTICE TO INDIVIDUALS REQUIRED BY PRIVATE ACT OF 1974 AND THE PAPERWORK REDUCTION ACT OF 1980  
 Sections 301, 303, and 308 of the Communications Act of 1934, as amended, (licensing powers) authorize the FCC to request the information on this application. The purpose of the information is to determine your eligibility for a license. The information will be used by FCC staff to evaluate the application, to determine station location, to provide information for enforcement and rule-making proceedings and to maintain a current inventory of licensees. No license can be granted unless all information requested is provided. Your response is required to obtain this authorization.

FCC FORM 402 ENGINEERING DATA

SECTION III-TECHNICAL INFORMATION

TRANSMITTER SITE NAME : 420 EAST 54T, NY  
TRANSMITTER COORDINATES : 40 45 20.0 N  
73 57 52.0 W

20. FREQUENCY (MHZ): SEE EXHIBIT  
21. EMISSION: SEE EXHIBIT  
22. TYPE OF MESSAGE SERVICE: VIDEO  
23. INITIAL BASEBAND CHANNEL LOADING: 1  
24. 10 YR PROJ. BASEBAND CHANNEL LOAD: 1

TRANSMITTER INFORMATION

25. OPERATING FREQ. TOL(%): 0.000500  
26. ANTENNA GAIN (DBI): 44.7  
27. EFFECTIVE RADIATED POWER (DBM): 24.7  
28. BEAM WIDTH (DEGREES): 0.9  
29. CENTER OF RADIATING ELEMENT (FT): 405.0  
30. POLARIZATION: V  
31. AZIMUTH TO NEXT STATION OR PR1(DEG): 270.011

RECEIVER INFORMATION

RECEIVER SITE NAME : 333 E 55TH , NY

32. CALL SIGN:  
33. RECEIVING ANTENNA GAIN (DBI): 48.2  
34. MEDIAN RECEIVED SIGNAL LEVEL (DBM): -40.9  
35. LATITUDE N. (DD MM SS): 40 45 27.5  
36. LONGITUDE W. (DDD MM SS): 73 57 54.5  
37. GROUND ELEVATION AMSL (FT): 48.0  
38. HT. TO RECEIVING ANTENNA (FT): 132.0

\*\*\*\*\*

SUPPLEMENTAL INFORMATION

TRANSMITTER INFORMATION

TRANSMITTER ANTENNA MAKE: CABLEWAVE SYSTEMS  
TRANSMITTER ANTENNA MODEL: PA4-190  
EQUIPMENT MAKE: HUGHES AIRCRAFT CO  
EQUIPMENT MODEL: D0063QAMLMOT18120

RECEIVER INFORMATION

RECEIVING ANTENNA MAKE: CABLEWAVE SYSTEMS  
RECEIVING ANTENNA MODEL: PA6-190

FCC FORM 402 ENGINEERING DATA

PASSIVE REPEATER INFORMATION

345 PASSIVE --> 333 E 55TH ST, NY

39. LATITUDE N. (DD MM SS):	40 45 20.0
40. LONGITUDE W. (DDD MM SS):	73 57 59.0
41. GROUND ELEVATION AMSL (FT):	32
42. HT. OF PR 1 STRUCTURE (FT):	165.0
43. DIM. (FT X FT) OR BEAMWIDTH (DEG):	0.650
44. HT. TO CENTER OF PR 1 (FT):	160.0
45. POLARIZATION:	V
46. AZIMUTH-PR 1 TO NEXT STATION (DEG):	24.525

\*\*\* COMSEARCH \*\*\*

EXHIBIT #1

FREQUENCY

EMISSION DESIGNATOR

18145.0	5750A5C/250F3
18151.0	5750A5C/250F3
18157.0	5750A5C/250F3
18163.0	100AO
18169.0	5750A5C/250F3
18175.0	5750A5C/250F3
18181.0	5750A5C/250F3
18187.0	5750A5C/250F3
18193.0	5750A5C/250F3
18199.0	5750A5C/250F3
18205.0	5750A5C/250F3
18211.0	5750A5C/250F3
18217.0	5750A5C/250F3
18223.0	5750A5C/250F3
18229.0	5750A5C/250F3
18235.0	5750A5C/250F3
18241.0	5750A5C/250F3
18247.0	5750A5C/250F3
18253.0	5750A5C/250F3
18259.0	5750A5C/250F3
18265.0	5750A5C/250F3
18271.0	5750A5C/250F3
18277.0	5750A5C/250F3
18283.0	5750A5C/250F3
18289.0	5750A5C/250F3
18295.0	5750A5C/250F3
18301.0	5750A5C/250F3
18307.0	5750A5C/250F3
18313.0	5750A5C/250F3
18319.0	5750A5C/250F3
18325.0	5750A5C/250F3
18331.0	5750A5C/250F3
18337.0	5750A5C/250F3
18343.0	5750A5C/250F3
18349.0	5750A5C/250F3
18355.0	5750A5C/250F3
18361.0	5750A5C/250F3
18367.0	5750A5C/250F3
18373.0	5750A5C/250F3
18379.0	5750A5C/250F3
18385.0	5750A5C/250F3
18391.0	5750A5C/250F3
18397.0	5750A5C/250F3
18403.0	5750A5C/250F3
18409.0	5750A5C/250F3
18415.0	5750A5C/250F3
18421.0	5750A5C/250F3
18427.0	5750A5C/250F3
18433.0	5750A5C/250F3
18439.0	5750A5C/250F3
18445.0	5750A5C/250F3

EXHIBIT #1 CONTINUED

<u>FREQUENCY</u>	<u>EMISSION DESIGNATOR</u>
18451.0	5750A5C/250F3
18457.0	5750A5C/250F3
18463.0	5750A5C/250F3
18469.0	5750A5C/250F3
18475.0	5750A5C/250F3
18481.0	5750A5C/250F3
18487.0	5750A5C/250F3
18493.0	5750A5C/250F3
18499.0	5750A5C/250F3
18505.0	5750A5C/250F3
18511.0	5750A5C/250F3
18517.0	5750A5C/250F3
18523.0	5750A5C/250F3
18529.0	5750A5C/250F3
18535.0	5750A5C/250F3
18541.0	5750A5C/250F3
18547.0	5750A5C/250F3
18553.0	5750A5C/250F3
18559.0	5750A5C/250F3
18565.0	5750A5C/250F3
18571.0	5750A5C/250F3
18577.0	5750A5C/250F3

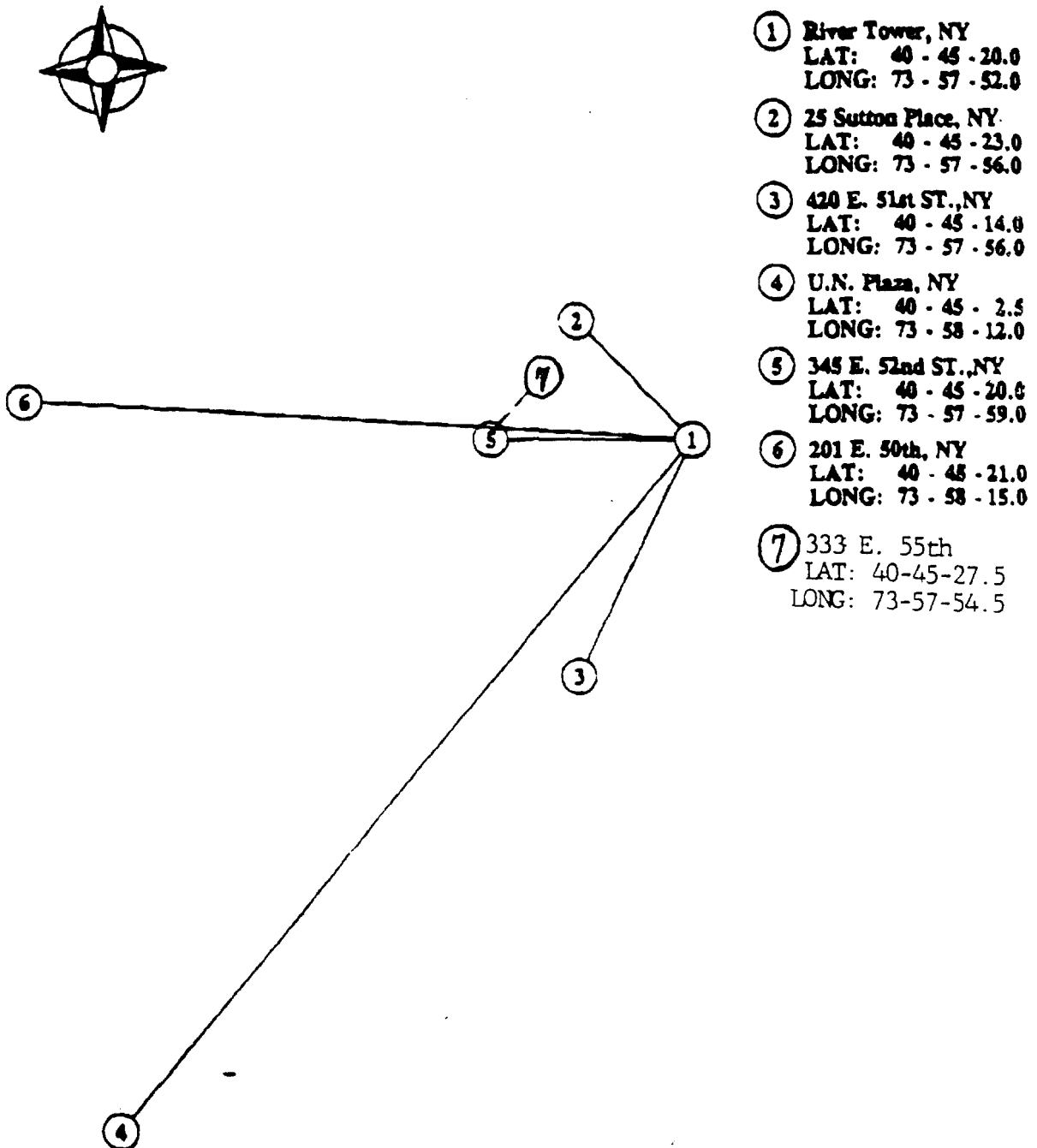
**STATEMENT OF ELIGIBILITY AND USE**

Applicant is engaged in the operation of a commercial activity as a provider of video entertainment programming to customers. Therefore, Applicant is eligible for operational-fixed microwave frequencies under section 90.75(a)(1) of the Commission's rules.

Applicant proposes to distribute its own products and services to customers using operational-fixed frequencies in the band 18,142-18,580 MHz. Pursuant to section 94.31(j) of the Commission's rules, the nature of the products and services to be distributed are described below. Applicant is the owner and operator of various private cable (SMATV) systems and proposes the point-to-point distribution of video entertainment material to private cable buildings and ultimately subscribers to the service. Section 94.9(a)(1) of the Commission's rules prohibits the distribution of video entertainment material to customers on frequencies below 21,200 MHz except as provided in Section 94.61(b) and Section 94.9(a)(2). Section 94.9(a)(2) authorizes a licensee to transmit any of its own products or services, including video entertainment programming, to any receiving location on frequencies in the 18,142-18,580 MHz band. Thus, Applicant's proposed use of the 18,142-18,580 MHz band frequencies is consistent with the Commission's rules.

# Functional System Diagram

## WNTF-569 SITE INFORMATION



Liberty Cable Television  
18 GHZ Video Microwave System



COMSEARCH  
11720 Sunrise Valley Drive  
Reston, Virginia 22091  
(703) 620-6300

LIBERTY CABLE CO., INC.

04/12/93

## MICROWAVE PATH DATA

<u>STATION NAME</u>	420 EAST 54TH NY	345 PASSIVE NY
<u>PATH STATUS</u>	PROPOSED OR PRIOR COORDINATED	
<u>CALL SIGN</u>	WNT569	
<u>LATITUDE</u> (D-M-S)	40 45 20.0	40 45 20.0
<u>LONGITUDE</u> (D-M-S)	73 57 52.0	73 57 59.0
<u>GROUND ELEV</u> (FT-AMSL)	30	32
<u>PATH AZIMUTH</u> (DEG)	270.011	90.010
<u>PATH DISTANCE</u> (MILES)	0.102	
	(KM)	0.164
<u>ANTENNA</u>		
<u>PRIMARY</u>	TX	CABLEWAVE SYSTEMS
		PA4-190
		CB0082
<u>FCC CODE</u>		44.7
<u>GAIN</u> (dBi)		405
<u>C/L</u> (FT-AGL)		
<u>PRIMARY</u>	RX	NOT APPLICABLE
		CABLEWAVE SYSTEMS
		PA6-190
<u>FCC CODE</u>		CB0093
<u>GAIN</u> (dBi)		48.2
<u>C/L</u> (FT-AGL)		160
<u>DIVERSITY</u>		
<u>FCC CODE</u>		
<u>GAIN</u> (dBi)		
<u>C/L</u> (FT-AGL)		
<u>EQUIPMENT</u>	HUGHES AIRCRAFT CO	PASSIVE
	DOO63QAMLMOT18120	REPEATER
<u>FCC CODE</u>	PENDING	
<u>EMISSION</u>	5M75C3F/250F3/100AO	
<u>LOADING</u>	VIDEO	
<u>STABILITY</u> (%)	0.000500	
<u>POWER</u> (DBM)	-10.0	
<u>RECEIVED LEVEL</u> (DBM)		
<u>EIRP</u> (DBM)	24.7	
<u>FIXED LOSSES</u> (DB)	10.0	1.0
<u>FREE SPACE LOSS</u> (DB)		102.2
<u>TRANSMIT</u>	18145.0V, 18151.0V, 18157.0V, 18163.0V, 18169.0V, 18175.0V, 18181.0V	
<u>FREQUENCIES</u>	18187.0V, 18193.0V, 18199.0V, 18205.0V, 18211.0V, 18217.0V, 18223.0V	
<u>(MHZ)</u>	18229.0V, 18235.0V, 18241.0V, 18247.0V, 18253.0V, 18259.0V, 18265.0V	
	18271.0V, 18277.0V, 18283.0V, 18289.0V, 18295.0V, 18301.0V, 18307.0V	
	18313.0V, 18319.0V, 18325.0V, 18331.0V, 18337.0V, 18343.0V, 18349.0V	
	18355.0V, 18361.0V, 18367.0V, 18373.0V, 18379.0V, 18385.0V, 18391.0V	
	18397.0V, 18403.0V, 18409.0V, 18415.0V, 18421.0V, 18427.0V, 18433.0V	
	18439.0V, 18445.0V, 18451.0V, 18457.0V, 18463.0V, 18469.0V, 18475.0V	
	18481.0V, 18487.0V, 18493.0V, 18499.0V, 18505.0V, 18511.0V, 18517.0V	
	18523.0V, 18529.0V, 18535.0V, 18541.0V, 18547.0V, 18553.0V, 18559.0V	
	18565.0V, 18571.0V, 18577.0V	



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## MICROWAVE PATH DATA

<u>STATION NAME</u>	345 PASSIVE NY	333 E 55TH NY
<u>PATH STATUS</u>	PROPOSED OR PRIOR COORDINATED	
<u>CALL SIGN</u>		
<u>LATITUDE</u> (D-M-S)	40 45 20.0	40 45 27.5
<u>LONGITUDE</u> (D-M-S)	73 57 59.0	73 57 54.5
<u>GROUND ELEV</u> (FT-AMSL)	32	48
<u>PATH AZIMUTH</u> (DEG)	24.525	204.526
<u>PATH DISTANCE</u> (MILES)		0.158
(KM)		0.254
<u>ANTENNA</u>		
<u>PRIMARY</u> TX	CABLEWAVE SYSTEMS	NOT APPLICABLE
	PA6-190	
FCC CODE	CB0093	
GAIN (dBi)	48.2	
C/L (FT-AGL)	160	
<u>PRIMARY</u> RX	NOT APPLICABLE	CABLEWAVE SYSTEMS
		PA6-190
FCC CODE		CB0093
GAIN (dBi)		48.2
C/L (FT-AGL)		132
<u>DIVERSITY</u>		
<u>FCC CODE</u>		
GAIN (dBi)		
C/L (FT-AGL)		
<u>EQUIPMENT</u>	PASSIVE	RECEIVE
	REPEATER	ONLY
FCC CODE		
EMISSION		
LOADING		
STABILITY (%)		
POWER (DBM)	-31.3	
RECEIVED LEVEL (DBM)		-40.9
EIRP (DBM)	16.9	
FIXED LOSSES (DB)	1.0	0.0
FREE SPACE LOSS (DB)	106.0	
<u>TRANSMIT</u>	18145.0V, 18151.0V, 18157.0V, 18163.0V, 18169.0V, 18175.0V, 18181.0V	
<u>FREQUENCIES</u>	18187.0V, 18193.0V, 18199.0V, 18205.0V, 18211.0V, 18217.0V, 18223.0V	
(MHZ)	18229.0V, 18235.0V, 18241.0V, 18247.0V, 18253.0V, 18259.0V, 18265.0V	
	18271.0V, 18277.0V, 18283.0V, 18289.0V, 18295.0V, 18301.0V, 18307.0V	
	18313.0V, 18319.0V, 18325.0V, 18331.0V, 18337.0V, 18343.0V, 18349.0V	
	18355.0V, 18361.0V, 18367.0V, 18373.0V, 18379.0V, 18385.0V, 18391.0V	
	18397.0V, 18403.0V, 18409.0V, 18415.0V, 18421.0V, 18427.0V, 18433.0V	
	18439.0V, 18445.0V, 18451.0V, 18457.0V, 18463.0V, 18469.0V, 18475.0V	
	18481.0V, 18487.0V, 18493.0V, 18499.0V, 18505.0V, 18511.0V, 18517.0V	
	18523.0V, 18529.0V, 18535.0V, 18541.0V, 18547.0V, 18553.0V, 18559.0V	
	18565.0V, 18571.0V, 18577.0V	

**FREQUENCY COORDINATION**

Pursuant to section 94.15(b) of the FCC's rules, Applicant has conducted a frequency engineering analysis of the potential interference between the proposed facilities and previously authorized and pending applications. Attached hereto are the Supplemental Showings of Comsearch certifying compliance with the interference standards of sections 21.100(d) and 94.63 of the FCC's rules.



APRIL 12, 1993

\*\*\*\*\*  
\*\*\* CLIENT COPY \*\*\*  
\*\*\* PLEASE MAIL \*\*\*  
\*\*\* TO CUSTOMER \*\*\*

RE: Liberty Cable Co., Inc.  
215 East 95th Street, New York, NY 10128  
18 GHz Video Microwave System  
Receive Antenna Change (page 4 of 4)  
Previous PCN Dated 04/01/93  
205 East 64th -> 155 East 73rd, NY  
Changes Have Been Underlined  
205 East 64th -> Imperial House, NY  
420 East 54th -> Passive -> 333 E 55th, NY

Dear Sir or Madam:

On behalf of Liberty Cable Co., Inc., we are forwarding the attached coordination data for the proposed microwave paths referenced above, pursuant to Parts 21.100(d) and 94.15(a) of the FCC Rules.

Please examine this data for potential interference with your stations. In the event that interference problems are discovered, please notify us at your earliest convenience. If a response is not received within thirty days of 04/15/93, we will assume that you have no objections to this proposal.

If you have any questions or require additional information, please call me.

Sincerely,

Michael R. Roth  
Engineer  
Transmission Planning Services

Enclosure



SUPPLEMENTAL SHOWING, PART 21.100(D)

Liberty Cable Co., Inc.  
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PURSUANT TO PART 21.100(D) OF THE FCC RULES AND REGULATIONS THE ABOVE REFERENCED MICROWAVE ROUTE WAS COORDINATED WITH THE EXISTING LICENSEES AND APPLICANTS WHOSE FACILITIES COULD BE AFFECTED. COORDINATION DATA WAS FORWARDED ON APRIL 12, 1993.

THE FOLLOWING CARRIERS OR THEIR DESIGNATED COORDINATION AGENTS WERE NOTIFIED:

AAD MICROWAVE SERVICES CORPORATION  
AAT COMMUNICATIONS CORPORATION  
ABC RADIO NETWORK INC  
ABRAHAM AND STRAUS  
ACC NETWORK CORPORATION  
AETNA LIFE INSURANCE COMPANY  
ALBANY TELEPHONE COMPANY  
ALLENTOWN CELLULAR TELEPHONE COMPANY  
AMERICAN CELL. NET. CORP. dba COMCAST CE  
AMERICAN SATELLITE COMPANY  
AMICA MUTUAL INSURANCE CO C/O NEW ENG DI  
ASSOCIATED PRESS - CTS ENGINEERING  
AT&T COMMUNICATIONS  
BELL ATLANTIC - NSS  
BELL COMMUNICATIONS RESEARCH, INC.  
BLUE CROSS BLUE SHIELD OF MASSACHUSETTS  
BOLT BERANEK AND NEWMAN INC  
BOSTON EDISON COMPANY  
CABLE SCIENCE CORPORATION  
CANTON CELLULAR TELEPHONE - PENNSYLVANIA  
CARL COMPANY  
CELLULAR OF UPSTATE NEW YORK



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(CONT'D)

CELLULAR TELEPHONE COMPANY OF NEW YORK  
CHANNEL 13 TELEVISION  
CHANNEL 20 LICENSEE INC  
CHASE MANHATTAN BANK  
CITY UNIVERSITY OF NEW YORK  
COLUMBIA UNIVERSITY  
COMDISCO DISASTER RECOVERY SERVICE  
COMMUNITY HOME ENTERTAINMENT  
COMPUGRAPHIC  
COMSEARCH  
CONNECTICUT BANK AND TRUST COMPANY  
CONNECTICUT LIGHT AND POWER COMPANY  
CONNECTICUT PUBLIC BROADCASTING, INC.  
CONSOLIDATED EDISON COMPANY OF NEW YORK  
CONSOLIDATED RAIL CORPORATION  
CONSOLIDATED SPECTRUM SERVICES  
CORP. SATELLITE COMMUNICATIONS INC (CSC)  
DEAD COMPANY  
DELMARVA POWER & LIGHT CO.  
DIGICOM INC  
DOW JONES AND COMPANY, INC.  
EBASCO SERVICES, INC.  
EDUCATIONAL BROADCASTING COMPANY  
EDWARDS AND KELCEY INC



SUPPLEMENTAL SHOWING, PART 21.100(D)

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(CONT'D)

EMI COMMUNICATIONS CORPORATION  
FAIRCHILD COMM NETWORK MNGMT CO  
FIRST BOSTON CORPORATION  
FIRST NATIONAL BANK OF BOSTON  
FIRST NATIONAL BANK OF MARYLAND  
FRANKLIN COUNTY OF  
GREENWICH POLICE DEPARTMENT  
GROUP W TELEVISION / WJZ TV  
GRUMMAN AEROSPACE CORPORATION  
HARRISBURG CELLULAR TELEPHONE COMPANY  
HUDSON VALLEY COMMUNITY COLLEGE  
IBM RESEARCH AND DEVELOPMENT, INC.  
INTERACTIVE MEDIA SERVICES  
LAUREL RACETRACK  
LAWRENCE SCHOOL DISTRICT  
LEVER BROTHERS  
LIZ CLAIBORNE, INC.  
LOCAL AREA TELECOMMUNICATIONS INC  
LONG ISLAND RAILROAD COMMUNICATIONS DEP  
MALRITE  
MARYLAND STATE OF MASS TRANSIT ADMIN  
MCGRAW HILL, INC. NET ENG N-1  
MCI TELECOMMUNICATIONS CORPORATION  
MEDICAL COLLEGE OF PENNSYLVANIA  
METRO CABLE SYSTEMS, INC.



SUPPLEMENTAL SHOWING, PART 21.100(D)

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(CONT'D)

METRO MOBILE CTS OF FAIRFIELD COUNTY  
METROMEDIA COMMUNICATIONS CORPORATION  
METRONET COMMUNICATIONS  
METRONET INC RADIO PAGING  
MICRO TEL OF LONG ISLAND, INC.  
MICROBAND CORPORATION OF AMERICA  
MICROBAND WIRELESS CABLE OF NEW YORK, IN  
MICRONET COMMUNICATIONS, INC.  
MICRONET, INC.  
MICROWAVE PLANNING, INC.  
MICROWAVE SATELLITE TECH. - WOODSIDE  
MIDLAND COMMUNICATIONS CORPORATION  
MORGAN STANLEY  
MOTOROLA C & E, INC  
NASSAU, COUNTY OF POLICE DEPARTMENT  
NATIONAL WESTMINSTER BANK  
NBC SUBSIDIARY (WNBC-TV, INC.)  
NEW ENGLAND DIGITAL DISTRIBUTION, INC.  
NEW ENGLAND MICROWAVE INC (STORER)  
NEW ENGLAND TELEPHONE COMPANY  
NEW JERSEY BELL TELEPHONE COMPANY  
NEW JERSEY INTERCAMPUS NETWORK, INC.  
NEW JERSEY PUBLIC BROADCASTING AUTHORITY  
NEW YORK STATE OF OFFICE GENERAL SRVCS



SUPPLEMENTAL SHOWING, PART 21.100(D)

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(CONT'D)

NEW YORK CELLULAR GEOGRAPHIC SRVC AREA  
NEW YORK CGSA FOR ALBANY  
NEW YORK CITY HEALTH & HOSPITAL CORP  
NEW YORK CITY POLICE DEPARTMENT  
NEW YORK STATE ASSEMBLY  
NEW YORK STATE ELECTRIC AND GAS  
NEW YORK STATE HOSPITAL  
NEW YORK TELEPHONE  
NEW YORK UNIVERSITY, TELECOM. DEP'T.  
NEW YORK, CITY OF BOARD OF EDUCATION  
NORTHEASTERN PENNSYLVANIA CELLULAR TEL  
NORTHFIELD MT HERMON SCHOOL  
ORANGE COUNTY CELLULAR TELEPHONE CORP.  
OTSEGO COUNTY, NEW YORK  
PAINE-WEBBER  
PHOENIX COMMUNICATIONS, INC.  
PORT AUTHORITY OF NEW YORK & NEW JERSEY  
PROVIDENCE JOURNAL  
PRUDENTIAL BACHE SECURITIES INC  
PUTNAM COMPANIES  
RANA INC  
RCI NETWORK SERVICES  
ROBERT PLAN INSURANCE CORPORATION  
SAINT JOSEPH HOSPITAL  
SANDERS ASSOCIATES





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(CONT'D)

SCHENECTADY COUNTY, NEW YORK/LAW ENFORCE  
SCRIPPS HOWARD BROADCASTING CO, INC  
SOUTHEASTERN PENNSYLVANIA AUTHORITY  
SOUTHERN NEW ENGLAND TELEPHONE CO  
SOUTHWESTERN BELL MOBILE SYSTEMS - MA  
SPEAR LEEDS AND KELLOGG INC  
SPENCER GIFTS  
STATE STREET BANK AND TRUST COMPANY  
STATE UNIVERSITY OF NEW YORK  
SUBURBAN CABLE TV CO INC  
SUPERIOR CABLE TV  
SUSQUEHANNA CELLULAR COMM LTD PARTNERSHI  
TELEMARK NETWORKS, INC  
TELEMEDIA COMMUNICATIONS, INC  
THE BOEING COMPANY  
TUFTS UNIVERSITY  
URBAN CABLESYSTEMS CORPORATION  
WATCH TOWER BIBLE & TRACT SOCIETY OF NY  
WATERFRONT COMMUNICATIONS CORPORATION  
WCAU-TV  
WELCH ALLYN INC  
WEST CORP COMMUNICATIONS, INC.  
WEST JERSEY HEALTH SYSTEM  
WESTCHESTER, COUNTY OF  
WHYY, INC.